

## Claims

1. A slide bearing (30), in particular a sintered bearing, for a shaft (16), in particular of an electrical machine (10), which bearing has a bore (32) for the shaft (16) and also has capillary gaps (40) and is saturated with a lubricant, characterized in that at least the surface region of the bore (32) has zones (34, 36) of different density, which are saturated with a low-viscosity poly-alpha-olefin lubricant.
2. The slide bearing (30) as defined by claim 1, characterized in that the viscosity at 40°C is 22 mm<sup>2</sup>/s and at 100°C is 4.8 mm<sup>2</sup>/s.
3. The slide bearing (30) as defined by claim 1 or 2, characterized in that the ratio of the length (42) to the width (44) of the capillary gaps (40) is between 2.5/0.75 and 1.4/0.8.
4. The slide bearing (30) as defined by one of the foregoing claims, characterized in that the ratio of the length (42) to the width (44) of the capillary gaps (40) is between 2/0.9 and 1.4/0.45.
5. An electrical machine (10) having at least one bearing (30) as defined by one of the foregoing claims.